

# Clean Water Plan

*Making the Right Investments at the Right Time*

MWPAAC Monthly Update

December 11, 2019



**Clean Water Plan**


Making the right investments at the right time



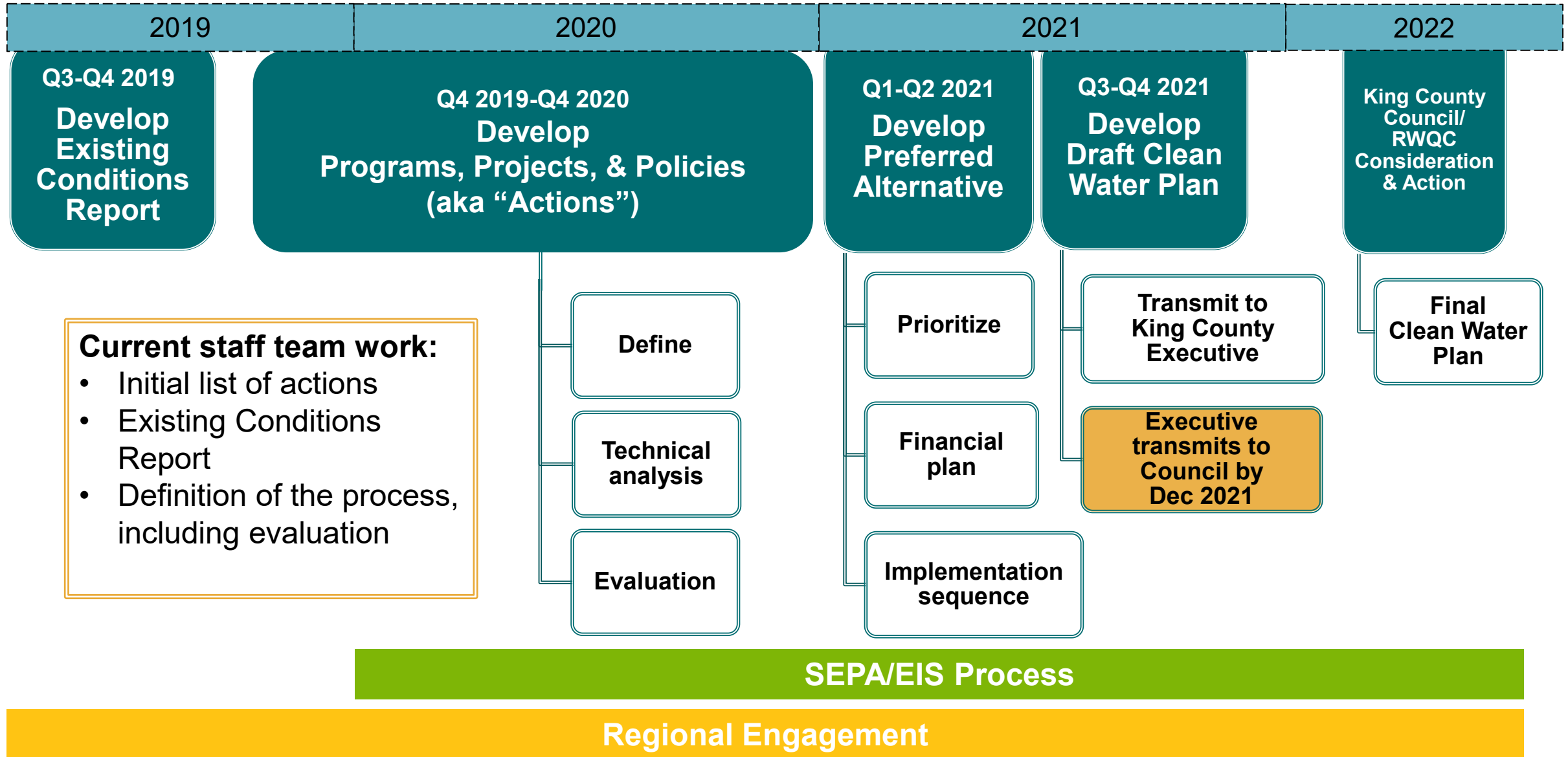
**King County**

Department of Natural Resources and Parks  
Wastewater Treatment Division

***What is the most appropriate path to ensure we direct the right public investments to the right actions at the right time for the best water quality outcomes?***



# Planning Process Overview



**Clean Water Plan Core Question:** *What is the most appropriate path to ensure we direct the right public investments to the right actions at the right time for the best water quality outcomes?*

## Preliminary Decision Areas

- Treatment Plants: What treatment plant investment should be made? [October Briefing](#)
- Pollutant Source Control / Product Stewardship: Are there more efficient or effective methods than wastewater treatment to address pollutants of concern? [December Briefing](#)
- Stormwater and Combined Sewer Overflows: What approach should be taken to address stormwater and combined sewer overflows in King County's system?
- Wastewater Conveyance System: What are the best investments in collection systems to ensure sufficient capacity? [December Briefing](#)
- Asset Management, Resiliency, and Redundancy: What investments should be made to care for an aging regional wastewater system and protect investments that have been made? [October Briefing](#)
- Legacy Pollution: What are the opportunities to address legacy pollution?
- Resource Recovery: What level of investment should King County make in recovering resources from wastewater?
- Finance: How will regional water quality investments be financed?

# Example Actions – Conveyance

*What are the best investments in collection systems to ensure sufficient capacity?*

- **Example Action 1:** Continue current 20 year conveyance system level of service (5% chance overflow in any given year). Complete Projects Identified in the 2017 Conveyance System Improvement (CSI) Program Update.
- **Example Action 2:** Revise conveyance system level of service standard to 5 year (20% chance of overflow in any given year). Revise 2017 CSI Program Update and future updates to the 5 year level of service standard.
- **Example Action 3:** Implement infiltration and inflow (I/I) measures that would reduce current peak flows and/or future peak flows as a result of infrastructure degradation over time in the system. (Note: this includes ongoing I/I program work that MWPAAC and WTD are collaborating on.)
- **Example Action 4:** Implement widescale collection system sensors, monitoring, and data transmission to track real-time conditions through the collection system (e.g., flows, levels, temperature, precipitation, etc.). Use data analytics to optimize collection system capacity, performance, and overall management.

# Example Actions – Pollutant Source Control/Product Stewardship

*Are there more efficient or effective methods than wastewater treatment to address pollutants of concern?*

- **Example Action 1:** Expand/augment existing activities to provide or influence incentives for product stewardship. For example, ensure proper disposal of products that contain toxic chemicals, like PFAS-containing products.
- **Example Action 2:** Expand/augment existing source control programs or activities beyond current regulation to influence the development of new regulations and regulatory actions for product stewardship. Potential new regulations include bans on phthalates, PFAS chemicals, and the hazardous class of flame retardants. Implementation could be immediate (e.g., Hawaii ban of sunscreen containing the coral-harming chemicals oxybenzone and octinoxate) or phased (e.g., copper free breakpad Initiative is an MOU between EPA and Automotive Industry).
- **Example Action 3:** Implement existing King County pollutant source control programs (e.g. municipal wastewater, stormwater, local hazardous waste) and wastewater pretreatment program (e.g. WTD industrial waste program).

# 2019 Regional Engagement Activities



# County & Community Priorities

- *Protect and restore our rivers, lakes, and Puget Sound*
- *Prepare for and prevent climate change*
- *Avoid sewer system failures*
- *Protect public health*
- *Support healthy habitats for fish and wildlife*
- *Keep rates affordable in the context of the growing region*
- *Ensure benefits and impacts are experienced equitably*
- *Communicate with the public about the plan*
- *Maintain an effective wastewater treatment workforce*
- *Increase collaboration between agencies and departments*
- *Prioritize the best water quality outcomes for our investments*



# County & Community Priorities

## Values:

## Frequently-cited problems:

<p><b>Protect and restore our rivers, lakes, and Puget Sound</b></p>	<ul style="list-style-type: none"> <li>• Water is relevant to cultural, spiritual, recreational, ecological, and commercial needs</li> <li>• Water is resource for future generations</li> </ul>	<ul style="list-style-type: none"> <li>• Stormwater as a pathway for pollution</li> <li>• Point-source pollution</li> <li>• Legacy contamination</li> </ul>
<p><b>Avoid sewer system failures</b></p>	<ul style="list-style-type: none"> <li>• Enjoyment of local bodies of water are important for our quality of life</li> <li>• Protect public health and the environment</li> </ul>	<ul style="list-style-type: none"> <li>• Sewage spills from treatment plants and pipes</li> <li>• Aging infrastructure</li> </ul>
<p><b>Ensure benefits and impacts are experienced equitably</b></p>	<ul style="list-style-type: none"> <li>• Address historical inequities related to water quality</li> <li>• Value the voices of people of color and other underrepresented communities</li> </ul>	<ul style="list-style-type: none"> <li>• Communities suffer disproportionately from the impacts of environmental pollution and climate change</li> </ul>

# Discussion and Questions

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